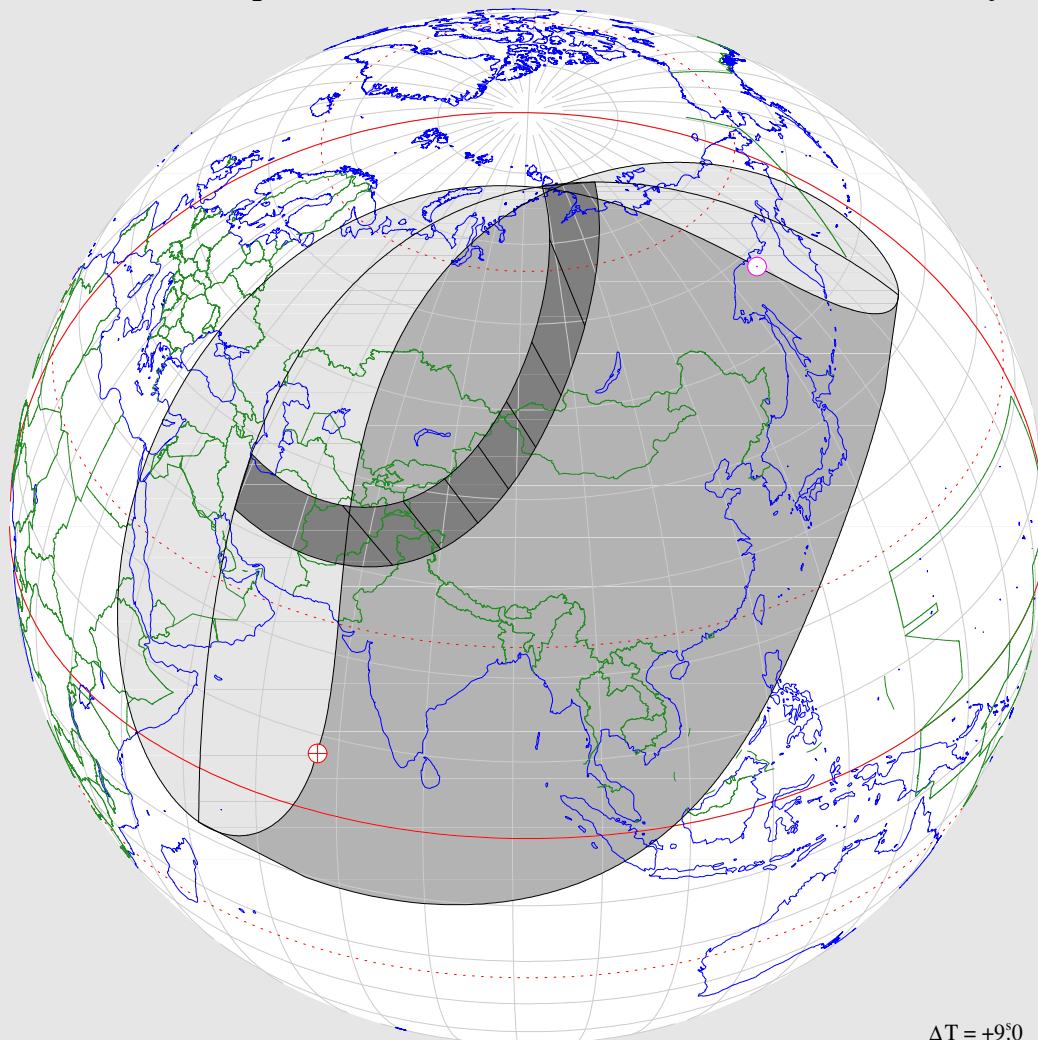


## II. - Annular Eclipse of the Sun

1692 February 17



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$\Delta T = +9^s 0$   
Globe centred on E 91°7' and N 37°0'

| Circumstances                                    | Time (UT) |      | Longitude |      | Latitude |      |
|--------------------------------------------------|-----------|------|-----------|------|----------|------|
|                                                  | h         | m    | °         | '    | °        | '    |
| ⊕ Eclipse begins; first contact with Earth       | 1         | 51.1 | E 67      | 31.5 | N 7      | 40.6 |
| Beginning of southern limit of penumbra          | 2         | 40.4 | E 51      | 47.7 | S 8      | 06.3 |
| Beginning of southern limit of umbra             | 3         | 24.3 | E 50      | 04.9 | N 31     | 32.9 |
| Beginning of centre line; central eclipse begins | 3         | 29.6 | E 49      | 39.5 | N 34     | 33.2 |
| Beginning of northern limit of umbra             | 3         | 35.9 | E 49      | 12.5 | N 37     | 53.2 |
| End of northern limit of umbra                   | 5         | 17.1 | E 99      | 16.3 | N 77     | 57.8 |
| Central eclipse at local apparent noon           | 5         | 17.8 | E 104     | 11.3 | N 66     | 11.8 |
| End of centre line; central eclipse ends         | 5         | 23.3 | E 114     | 06.9 | N 77     | 46.9 |
| End of southern limit of umbra                   | 5         | 28.7 | E 126     | 13.0 | N 76     | 50.4 |
| End of southern limit of penumbra                | 6         | 12.9 | E 169     | 03.2 | N 42     | 53.4 |
| ⊙ Eclipse ends; last contact with Earth          | 7         | 02.1 | E 148     | 15.7 | N 58     | 01.7 |